

## IN THE CLAIMS

Please amend the claims to read as follows:

### Listing of Claims

1-45. (Cancelled)

46. (New) A communication system, comprising a first access router belonging to a first subnet, and a second access router belonging to a second subnet different from said first subnet, said first access router and said second access router being connected via an IP network, and a mobile terminal connected to said first subnet or said second subnet via radio communication, wherein:

the mobile terminal connected to said first subnet requests a link local address of a default router in said second subnet from said second access router immediately after executing a handover to said second subnet, and acquires said link local address of said default router which is different from said second access router from said second access router.

47. (New) A communication system, comprising a first access router belonging to a first subnet, and a second access router belonging to a second subnet different from said first subnet, said first access router and said second access router being connected via an IP network, and a mobile terminal connected to said first subnet or said second subnet via radio communication, wherein:

the mobile terminal connected to said first subnet requests a link local address of a default router in said second subnet from said second access router when transmitting a message

V to notify a connection to said second subnet immediately after executing a handover to said second subnet, and acquires said link local address of said default router which is different from said second access router from said second access router.

48. (New) The communication system according to claim 47, wherein said mobile terminal is so arranged that information to request said link local address of said default router is added within said message V, and said second access router is so arranged that an RA message including said link local address of said default router is transmitted to said mobile terminal.

49. (New) The communication system according to claim 47, wherein said mobile terminal is so arranged that information to request said link local address of said default router different from said message V is transmitted to said second access router, and said second access router is so arranged that an RA message including said link local address of said default router is transmitted to said mobile terminal.

50. (New) A communication system, comprising a first access router belonging to a first subnet, and a second access router belonging to a second subnet different from said first subnet, said first access router and said second access router being connected via an IP network, and a mobile terminal connected to said first subnet or said second subnet via radio communication, wherein:

the mobile terminal connected to said first subnet transmits a message V to notify a connection to said second subnet to said second router immediately after executing a handover to said second subnet, and acquires a link local address of a default router in said second subnet

from said second access router, said default router being different from said second access router; and

said second access router is arranged to transmit an RA message including said link local address of said default router when receiving said message V to notify the connection to said second subnet from said mobile terminal.

51. (New) A mobile terminal, to be used in a communication system comprising a first access router belonging to a first subnet, and a second access router belonging to a second subnet different from said first subnet, said first access router and said second access router being connected via an IP network, wherein the mobile terminal is connected to said first subnet or said second subnet via radio communication, the mobile terminal comprising:

a requesting unit for requesting a link local address of a default router in said second subnet from said second access router immediately after executing a handover from said first subnet to said second subnet; and

an acquiring unit for acquiring said link local address of said default router which is different from said second access router from said second access router.

52. (New) A mobile terminal, to be used in a communication system comprising a first access router belonging to a first subnet, and a second access router belonging to a second subnet different from said first subnet, said first access router and said second access router being connected via an IP network, wherein the mobile terminal is connected to said first subnet or said second subnet via radio communication, the mobile terminal comprising:

a requesting unit for requesting a link local address of a default router in said second subnet from said second access router when transmitting a message V to notify a connection to said second subnet immediately after executing a handover from said first subnet to said second subnet; and

an acquiring unit for acquiring said link local address of said default router which is different from said second access router from said second access router.

53. (New) The mobile terminal according to claim 52, further comprising:

an adding unit for adding information to request said link local address of said default router within said message V; and

a receiving unit for receiving an RA message including said link local address of said default router from said second access router.

54. (New) The mobile terminal according to claim 52, further comprising:

a transmitting unit for transmitting information to request said link local address of said default router different from said message V to said second access router; and

a receiving unit for receiving an RA message including said link local address of said default router from said second access router.

55. (New) A mobile terminal, to be used in a communication system comprising a first access router belonging to a first subnet, and a second access router belonging to a second subnet different from said first subnet, said first access router and said second access router being

connected via an IP network, wherein the mobile terminal is connected to said first subnet or said second subnet via radio communication, the mobile terminal comprising:

- a transmitting unit for transmitting, to said second access router, a message V to notify a connection to said second subnet immediately after executing a handover from said first subnet to said second subnet; and

- a receiving unit for receiving an RA message including a link local address of a default router in said second subnet from said second access router which has received said message V, said default router being different from said second access router.

56. (New) An access router in a communication system, being a second access router belonging to a second subnet different from a first subnet, to which a first access router belongs, said second router being connected to said first access router via an IP network and capable of being connected to a mobile terminal via radio communication, wherein said access router comprises:

- a receiving unit for receiving information to request a link local address of a default router in said second subnet from said mobile terminal, said mobile terminal transmitting said information immediately after executing a handover from said first subnet to said second subnet;

- an acquiring unit for acquiring said link local address of said default router which is different from said second access router; and

- a transmitting unit for transmitting an RA message including said link local address of said default router to said mobile terminal when receiving said information to request said link local address of said default router.

57. (New) An access router in a communication system, being a second access router belonging to a second subnet different from a first subnet, to which a first access router belongs, said access router being connected to said first access router via an IP network and capable of being connected to a mobile terminal via radio communication, wherein said access router comprises:

an accepting unit for accepting a request for a link local address of a default router in said second subnet from said mobile terminal when receiving, from said mobile terminal, a message V to notify a connection to said second subnet immediately after said mobile terminal executes a handover from said first subnet to said second subnet;

an acquiring unit for acquiring said link local address of said default router which is different from said second access router; and

a transmitting unit for transmitting an RA message including said link local address of said default router to said mobile terminal when accepting said request for said link local address of said default router.

58. (New) The access router according to claim 57, which is so arranged to transmit said RA message including said link local address of said default router to said mobile terminal when receiving said message V where information to request said link local address of said default router is added.

59. (New) The access router according to claim 57, which is so arranged to transmit said RA message including said link local address of said default router to said mobile terminal

when receiving information to request said link local address of said default router different from said message V.

60. (New) An access router in a communication system, being a second access router belonging to a second subnet different from a first subnet, to which a first access router belongs, said access router being connected to said first access router via an IP network and capable of being connected to a mobile terminal via radio communication, wherein said access router comprises:

a receiving unit for receiving, from said mobile terminal, a message V to notify a connection to said second subnet immediately after said mobile terminal executes a handover from said first subnet to said second subnet;

an acquiring unit for acquiring a link local address of a default router in said second subnet, said default router being different from said second access router; and

a transmitting unit for transmitting an RA message including said link local address of said default router to said mobile terminal when receiving said message V.